

Pastureland Resource Management System (RMS)

Field Office

Existing Conditions: *100 acres, Alicia bermudagrass, is in continuous use. Plants have low vigor. Area is poorly fertilized. No cool season plants are in production. Pasture is weedy. Streambank erosion is occurring from livestock during watering and grazing. Well is located in northeastern corner of pasture.*

Beef Cattle: *77 percent calf crop that has 325 lb. average weaning weights. Parasites are a problem in cattle. High feed bill mainly from buying hay and protein supplement. Neighbor's pond receiving sediment from streambank erosion. Suitable habitat for quail is a concern.*

Option 1 - Cow-Calf: *A Planned Grazing System consisting of a 16-pasture short duration system is planned. Facilitating practices are planned (see map). Streambank and Shoreline Protection is planned to control streambank erosion and includes fencing pastures 5 and 14, constructing a stream crossing, and managing grazing to stabilize streambanks.*

Express the effects of the selected practices as N/A, if not applicable; F = facilitating; 0 = no effect; + = positive effect; and - = negative effect.

<div>Resource Problems</div> <div>RMS Options</div>	Soil					Water		Plant				Animals								Air
	Erosion		Condition		Deposition	Quality		Condition		Management		Habitat				Management			Quality	
	Sheet and Rill Erosion	Streambank Erosion	Soil Compaction	Excess Fertilizer and Pesticides	Sediment Damage-Offsite	Surface Water Contaminants		Plant Suitability	Productivity	Estimated Growth Harvest	Nutrient and Pest Management	Food - Cattle	Food - Quail	Water - Quail	Water - Cattle	Population/Resource Balance		Animal Health-Cattle	Airborne Drift	
						Pesticides	Nutrients									Cattle	Quail			
Quality Criteria Met	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
Prescribed Grazing	+	+	+	+	+	+	+	N/A	+	+	+	+	0	+	N/A	+	+	+	+	
Nutrient Management	+	0	+	+	0	N/A	+	N/A	+	+	+	+	0	+	N/A	+	0	+	+	
Pest Management	0	0	0	+	0	+	N/A	+	+	+	+	+	-	-	N/A	+	-	+	+	
Fence - Electric	F	+	F	F	+	F	F	F	F	F	F	F	F	F	N/A	F	F	F	N/A	
Pipeline	F	F	F	F	F	F	F	F	F	F	F	F	F	F	+	F	F	F	N/A	
Watering Facility	F	F	F	F	F	F	F	F	F	F	F	F	F	F	+	F	F	F	N/A	
Pasture and Hay																				
Planting - Legumes	+	0	+	+	+	+	+	+	+	+	+	F	+	+	N/A	+	+	+	N/A	
Streambank and Shoreline Protection	N/A	+	N/A	N/A	+	+	+	+	0	0	0	-	+	+	-	0	0	+	N/A	

[illegible]

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	Erosion		Condition	Deposition	Quality		Condition		Management		Habitat		Management		Quality				
	Sheet and Rill Erosion	Streambank Erosion	Soil Compaction	Excess Fertilizer and Pesticides	Sediment Damage-Offsite	Surface Water Contaminants		Plant Suitability	Productivity	Estimated Growth Harvest	Nutrient and Pest Management	Food - Cattle	Food - Quail	Water - Quail	Water - Cattle	Population/Resource Balance		Animal Health-Cattle	Airborne Drift
						Pesticides	Nutrients									Cattle	Quail		
Quality Criteria Met	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
Prescribed Grazing	+	+	+	+	+	+	+	N/A	+	+	+	+	0	+	N/A	+	+	+	+
Nutrient Management	+	0	+	+	0	N/A	+	+	+	+	+	+	0	+	N/A	+	+	+	+
Pest Management	0	0	0	+	0	+	N/A	+	+	+	+	+	-	-	N/A	+	-	+	+
Fence - Electric	F	+	F	F	+	F	F	F	F	F	F	F	F	F	N/A	F	F	F	N/A
Pipeline	F	F	F	F	F	F	F	F	F	F	F	F	F	F	+	F	F	F	N/A
Watering Facility	F	F	F	F	F	F	F	F	F	F	F	F	F	F	+	F	F	F	N/A
Pasture and Hay																			
Planting - Legumes	+	0	+	+	+	+	+	+	+	+	+	+	+	+	N/A	+	+	+	N/A
Streambank and Shoreline Protection	N/A	+	N/A	N/A	+	+	+	+	0	0	0	+	+	+	-	0	0	+	N/A

Option III Cow-Calf: *Pasture Management consists of continuous grazing with a proper stocking rate. Streambank and Shoreline Protection is planned to control streambank erosion and includes fencing pastures 2 and 3, constructing a stream crossing, and managing grazing to stabilize streambanks.*

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Resource Problems RMS Options	Soil					Water		Plant				Animals						Air	
	Erosion		Condition		Deposition	Quality		Condition		Management		Habitat			Management			Quality	
	Sheet and Rill Erosion	Streambank Erosion	Soil Compaction	Excess Fertilizer and Pesticides	Sediment Damage-Offsite	Surface Water Contaminants		Plant Suitability	Productivity	Estimated Growth Harvest	Nutrient and Pest Management	Food - Cattle	Food - Quail	Water - Quail	Water - Cattle	Population/Resource/Balance		Animal Health-Cattle	Airborne Drift
						Pesticides	Nutrients									Cattle	Quail		
Quality Criteria Met	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Prescribed Grazing	+	+	+	+	+	+	+	+	+	+	+	+ ¹	0	+	N/A	+	+	+ ²	+
Nutrient Management	+	+	+	+	+	N/A	+	+	+	+	+	+	0	+	N/A	+	0	+	+
Pest Management	0	0	0	+	0	+	N/A	+	+	+	+	+	-	-	N/A	+	-	+	+
Fence - Electric	F	+	F	0	+	F	F	F	F	F	F	F	F	F	N/A	F	F	F	N/A
Pond		F	F	F	0	+	F	F	F	F	F	F	F	F	F	+	F	F	N/A
Pipeline	F	F	0	F	F	F	N/A	F	F	F	F	F	F	F	+	F	F	F	N/A
Watering Facility	F	F	F	0	F	F	F	F	F	F	F	F	F	F	+	F	F	F	N/A
Streambank and Shoreline Protection	N/A	+	N/A	N/A	+	+	+	+	0	0	0	0	+	+	-	0	0	+	+

¹ Protein supplement and hay must be fed during winter.

² Because of continuous grazing, producer must depend entirely on a worming program to control the internal parasite problem.